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**Calculation of the active ageing indicators at German NUTS 3 level and
at Russian Federal Level**

*Addressing Data Gaps for Active Ageing Indicators. Second Workshop. Minsk,
Belarus, June 23 2016*

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2.1 Voluntary activities: Original methodology (val. DE = 10)

Goal	To measure non-market productive activities of older population offered on the form of organised voluntary activities
Source	European Quality of Life Survey (EQLS) 2012
Question	(...) how often did you do unpaid voluntary work through the following organisations in the last 12 months? a. Community and social services (e.g. organisations helping the elderly, young people, disabled or other people in need) b. Educational, cultural, sports or professional associations, social movements (for example environmental, human rights) or charities (for example fundraising, campaigning) c. Other voluntary organisations
Coding	1 Every week 2 Every month 3 Less often / occasionally 4 Not at all

2.1 Voluntary activities: DE local index (1/4) (val. 30 NUTS3: 25)

Source	German Ageing Survey (DEAS) 2014
Question	<p>1) There are many groups that address older retirees or people in early retirement. Do you participate in activities of any of the groups listed here?</p> <p>2) The following focuses on groups and organizations in general that one can join. Please take a look at the list 410. Are you a member of any of the following groups?</p> <p>3) Are you a member of another group or organization?</p>
Coding	<p>1 Yes</p> <p>2 No</p>

2.1 Voluntary activities: DE local index (2/4) (val. 30 NUTS3: 18)

Source	German Survey on Volunteering (FWS) 2014
Question	When you think of the last 12 months: How often did you carry out your voluntary activity on average?
Coding	1 Daily 2 Several times a week 3 Once a week 4 Several times a month 5 Once a month 6 More rarely 7 unregular 8 not applicable 9 don't know

2.1 Voluntary activities: DE local index (3/4) (val. 30 NUTS3: 44)

Source	German Longitudinal Election Survey (GLES, after election) 2013
Question	<p>Please have a look at this list. Are you a member of one of these organizations? Please go through this list and tell me of which organisation you are a member. Tell me further whether you are just a passive member, whether you participate in the activities of the association or organisation and whether you hold an office: Trade union, Entrepreneurs/employer association, Professional association, Farmers' or agriculture association, Religious group/ church group, Sports or hobby club, Ecological group</p>
Coding	<p> 1 Yes, I am member and hold an office 2 Yes, I am member, don't hold an office but participate actively 3 Yes, I am a passive member 4 No, I am not a member 5 Don't know 6 No answer </p>

2.1 Voluntary activities: DE local index (4/4) (val. 30 NUTS3: 25)

Source	Survey of Health, Ageing and Retirement in Europe(SHARE) 2014
Question	Please look at card 32: which of the activities listed on this card – if any – have you done in the past twelve months?
Coding	1 Done voluntary or charity work 2 Participation a sport, social or other kind of club

2.1 Voluntary activities

Source	European Social Survey (ESS-2012)
Question	In the past 12 months, how often did you get involved in voluntary socially beneficial activities or work for voluntary or charitable organizations?
Coding	<ol style="list-style-type: none"> 1. At least once a week 2. At least once a month 3. At least once every three months 4. At least once every six months 5. Less often 6. Never

ESS-2012	2,1 (men – 0,6, women – 3,0)	NOBUS- 2014	on request
CMLC-2011	2,4 (men – 2,1, women – 2,5)	CMLC-2014	2,3 (men – 2,1, women – 2,5)

2.1 Voluntary activities

Source	National Survey of Household Welfare and Participation in Social Programs (NOBUS-2014)		
Question	Over the past year did you provide any unpaid volunteer work or work for the benefit of other person (who are not members of your household)?		
Coding	<ol style="list-style-type: none"> 1. Yes, I carried out this work in the interests of an organization or a fund (as a part of the collective organization, fund) 2. Yes, carried out this work in the interests (on request) of other person 3. No, I did not carry out such work <p>What is the average days per month and how many hours per day you had to work?</p>		
ESS-2012	2,1 (men – 0,6, women – 3,0)	NOBUS- 2014	on request
CMLC-2011	2,4 (men – 2,1, women – 2,5)	CMLC-2014	2,3 (men – 2,1, women – 2,5)

2.1 Voluntary activities

Source	Comprehensive Monitoring of Living Conditions of the Population (CMLC-2011, CMLC-2014)
Question	Are you a member of any public, voluntary or charitable organizations (movements) ?
Coding	1. Yes 2. No

ESS-2012	2,1 (men – 0,6, women – 3,0)	NOBUS- 2014	on request
CMLC-2011	2,4 (men – 2,1, women – 2,5)	CMLC-2014	2,3 (men – 2,1, women – 2,5)

Other possible sources: **Time use survey** or time budget survey

2.2 Care to children, grandchildren: Original methodology (val. DE = 18)

Goal	To capture activity of older population in the form of care provision to their own children and grandchildren
Source	European Quality of Life Survey (EQLS) 2012
Question	In general, how often are you involved in any of the following activities outside of work? a. Caring for your children, grandchildren
Coding	1 Every day 2 Several days a week 3 Once or twice a week 4 Less often 5 Never

2.2 Care to children, grandchildren: DE local index (1/3) (val. 30 NUTS3: 16)

Source	German Ageing Survey (DEAS) 2014
Question	I'd now like to go on to learn more about your activities and pastimes. Do you look after or supervise other people's children privately, e.g., your grandchildren or the children of siblings, neighbours, friends, or acquaintances?
Coding	<p>1 Grandchildren (A)</p> <p>2 Others (B-E)</p> <p>3 No</p> <p>4 Not mentioned</p> <p>5 Declined</p> <p>6 Don't know</p>

2.2 Care to children, grandchildren: DE local index (2/3) (val. 30 NUTS3: 24)

Source	German Survey on Volunteering (FWS) 2014
Question	<p>1) Are there any people, who are cared for or looked after by you privately on an unpaid basis due to their poor state of health?</p> <p>2) Are there other people outside your household, who you help regularly or occasionally privately on an unpaid basis, e. g. with errands or smaller jobs. Please think of the last 12 months?</p>
Coding	<p>1 Yes, one person</p> <p>2 Yes, several persons</p> <p>3 No</p>

2.2 Care to children, grandchildren: DE local index (3/3) (val. 30 NUTS3: 48)

Source	Survey of Health, Ageing and Retirement in Europe(SHARE) 2014
Question	During the last twelve months, have you regularly or occasionally looked after [your grandchild/your grandchildren] without the presence of the parents?
Coding	1 Yes 2 No

2.2 Care to children, grandchildren

Source	Russian Generations and Gender Survey (GGG-2011)
Proxy indicator, combining:	<p>a. How often do you help take care of your grandchild (any of your grandchildren)?</p> <p>b. I will list various tasks that need to be done when there are children in the household. Please tell me who does this in your household.</p> <ol style="list-style-type: none"> 1. Dresses the children and takes care of their clothes? 2. Puts the children to bed or sees that they go to bed? 3. Stays at home when the children are ill? 4. Plays with the children, takes part in their leisure and entertainment? 5. Helps the children with their homework? 6. Brings the children to school, kindergarten, to the baby-sitter, or various study groups, and brings them home?
Coding	<p>For grandchildren: at least once a week or 52 times in a year or 4 in a month</p> <p>For children:</p> <ol style="list-style-type: none"> 1. Always respondent 2. Usually respondent 3. Equally respondent and partner 4. Usually partner 5. Always partner

2.2 Care to children, grandchildren

Source	Comprehensive Monitoring of Living Conditions of the Population (CMLC-2011, CMLC-2014)
Question	Does the range of your daily activities include childcare (for your own or other people children without being paid)?
Coding	<ol style="list-style-type: none"> 1. Yes 2. No

GGG-2011	37,2 (men – 35,8, women – 38,2)		
CMLC-2011	17,4 (men – 11,9, women – 20,3)	CMLC-2014	15,7 (men – 11,6, women – 18,0)

Other possible sources: **Time use survey** or time budget survey

2.3 Care to older adults: Original methodology (val. DE = 9)

Goal	To capture valuable activities of older population in the form of care provision to older adults
Source	European Quality of Life Survey (EQLS) 2012
Question	In general, how often are you involved in any of the following activities outside of work? c. Caring for elderly or disabled relatives
Coding	1 Every day 2 Several days a week 3 Once or twice a week 4 Less often 5 Never

2.3 Care to older adults: DE local index (1/4) (val. 30 NUTS3: 16)

Source	German Ageing Survey (DEAS) 2014
Question	Are there people you look after or care for regularly due to their poor state of health, either on a private or volunteer basis? How much time do you spend per week helping the person you care for? Please give a weekly average number of hours.
Coding	1 Yes 2 No 3 Declined 4 Don't know

2.3 Care to older adults: DE local index (2/4) (val. 30 NUTS3: 35)

Source	European Social Survey (ESS) 2014
Question	Do you spend any time looking after or giving help to family members, friends, neighbours or others because of any of the reasons on this card? Do not count anything you do as part of your paid employment.
Coding	1 Yes 2 No 3 Don't know

2.3 Care to older adults: DE local index (3/4) (val. 30 NUTS3: 21)

Source	German Survey on Volunteering (FWS) 2014
Question	1) Are there any people, who are cared for or looked after by you privately on an unpaid basis due to their poor state of health? 2) Are there other people outside your household, who you help regularly or occasionally, privately on an unpaid basis, e. g. with errands or smaller jobs. Please think of the last 12 months? 3) If yes, how often?
Coding 1. and 2.	1 Yes, one person 2 Yes, several persons 3 No
3.	1 Daily 2 Several times a week 3 Once a week 4 Several times a month 5/6 Once a month/ More rarely

2.3 Care to older adults: DE local index (4/4) (val. 30 NUTS3: 55)

Source	Survey of Health, Ageing and Retirement in Europe (SHARE) 2014
Question	Now I would like to ask you about the help you have given to others. In the last 12 months, have you personally helped a family member living outside your household, friend or neighbour with personal care or helped any of them around the house?)
Coding	1 Yes 2 No

2.3 Care to older adults

Source	Russian Generations and Gender Survey (GGG-2011)
Question	In the last 12 months, have you provided regular assistance to anyone with eating, getting up, getting dressed, bathing, using the bathroom, etc.? Do not include childcare here.
Coding	<ol style="list-style-type: none"> 1. Yes 2. No

GGG-2011	8,1 (men – 4,8, women – 10,3)		
CMLC-2011	7,2 (men – 5,9, women – 7,9)	CMLC-2014	5,8 (men – 4,5, women – 6,6)

2.3 Care to older adults

Source	Comprehensive Monitoring of Living Conditions of the Population (CMLC-2011, CMLC-2014)
Question	Does the range of your daily activities include childcare (for your own or other people children without being paid)?
Coding	<ol style="list-style-type: none"> 1. Yes 2. No

GGI-2011	8,1 (men – 4,8, women – 10,3)		
CMLC-2011	7,2 (men – 5,9, women – 7,9)	CMLC-2014	5,8 (men – 4,5, women – 6,6)

Other possible sources: **Time use survey** or time budget survey

2.4 Political participation: Original methodology (val. DE = 21)

Goal	To capture the wider participation of older population in political and trade union activities and thus their abilities to influence decision making of these organisations
Source	European Quality of Life Survey (EQLS) 2012
Question	Over the last 12 months, have you ...? <ul style="list-style-type: none"> a. Attended a meeting of a trade union, a political party or political action group b. Attended a protest or demonstration c. Signed a petition, including an e-mail or on-line petition d. Contacted a politician or public official (other than routine contact arising from use of public services)
Coding	1 Yes 2 No

2.4 Political participation: DE local index (1/4) (val. 30 NUTS3: 35)

Source	German Ageing Survey (DEAS) 2014
Question	<p>If you think back over the past 12 months: How often on an average do you engage in the following activities?</p> <p>E: How often do you go to political meetings, i.e., held by parties, unions, or citizens' initiatives?</p>
Coding	<p>1 Daily</p> <p>2 Several times a week</p> <p>3 Once a week</p> <p>4 1–3 times a month</p> <p>5 Less often</p> <p>6 Never</p> <p>7 Declined</p>

2.4 Political participation: DE local index (2/4) (val. 30 NUTS3: 25)

Source	European Social Survey (ESS) 2014
Question	1) Did you vote in the last (country) national election in 2013 2) Have you contacted a politician, government or local government official? 3) Have you worked in a political party or action group?
Coding	1 Yes 2 No 3 Don't know

2.4 Political participation: DE local index (3/4) (val. 30 NUTS3: 77 and 91)

Source	German Survey on Volunteering (FWS) 2014
Question	<p>1) There are various ways of being politically active. Which of the following activities have you engaged in: held a political office or taken another political responsibility, taken part in a demonstration, been involved in a citizens' initiative, taken part in a public meeting in your town or district</p> <p>2) Did you take part in the general election (Bundestagswahl) 2013?</p>
Coding	<p>1 Yes</p> <p>2 No</p> <p>3 No answer/ Not entitled to vote (for question 2)</p>

2.4 Political participation: DE local index (4/4) (val. 30 NUTS3: 73)

Source	German Longitudinal Election Survey (GLES, after election) 2013
Question	<p>1) If you think back over the past 12 months: Did you often engage in the following activities: been involved in a citizens' initiative, taken part in a demonstration, have you supported a political party during election campaign?</p> <p>2) Did you take part in the general election (Bundestagswahl) 2009?</p>
Coding	<p>1 Yes</p> <p>2 No</p> <p>3 Don't know</p> <p>4 No answer</p>

2.4 Political participation

Source	European Social Survey (ESS-2012, ESS-2014)
Question	There are different ways of trying to improve things in Russia or help to prevent things from going wrong. During the last 12 months, have you done any of the following?
Coding	<ol style="list-style-type: none"> 1. contacted a politician, government or local government official? 2. worked in a political party or action group? 3. worked in another organization or association? 4. worn or displayed a campaign badge/sticker? 5. signed a petition? 6. taken part in a lawful public demonstration? 7. boycotted certain products?

ESS-2012 (post-stratification weight)	16,2 (men – 15,0, women – 16,9)	Weight not available	
ESS-2012 (design weight)	17,6 (men – 15,5, women – 18,7)	ESS-2014 (design weight)	15,0 (men – 15,1, women – 14,9)

3.4 Relative median income: Original methodology

(val. DE = 88)

Goal	<p>One of 3 indicators of financial security...</p> <p>Ratio</p> <p>Median equivalised income 65+ / Median equivalised income <65</p>
Source	European Union Statistics on Income and Living Conditions (EU-SILC) 2012
Question	<p>All kinds of income (work, social benefits etc.) of all household members.</p> <p>→ weighted for household size according to ‚modified OECD‘ scale with 1 for first person, 0.5 for other adults and 0.3 for children under 14</p>

3.4 Relative median income

Source	Russian Longitudinal Monitoring Survey (RLMS-2010, RLMS-2012, RLMS-2014)				
Question	<p>Household disposable income is established by summing up individual incomes of household members</p> <p>How much money did you receive during the 30 days preceding survey (including salary, pension, premium, profits, benefits, material help, occasional incomes and other monetary incomes, currency incomes in rubles)?</p> <p>The equivalence scale is the same as in European methodology</p>				
RLMS-2010	91,4 (men – 95,0 women – 88,7)	RLMS-2012	88,3 (men – 92,9 women – 84,8)	RLMS-2014	84,0 (men – 88,6 women – 82,5)
		NOBUS-2012	98,8 (men – 100,0 women – 95,9)	NOBUS-2014	91,9 (men – 96,2 women – 90,3)

3.4 Relative median income

Source	National Survey of Household Welfare and Participation in Social Programs (NOBUS-2012, NOBUS-2014)
Question	Household disposable income The equivalence scale is the same as in European methodology

RLMS-2010	91,4 (men – 95,0 women – 88,7)	RLMS-2012	88,3 (men – 92,9 women – 84,8)	RLMS-2014	84,0 (men – 88,6 women – 82,5)
		NOBUS-2012	98,8 (men – 100,0 women – 95,9)	NOBUS-2014	91,9 (men – 96,2 women – 90,3)

Other possible sources: **Surveys of household living standards and conditions**

If nothing is found – “Average income/consumption of people aged 60+ as a proportion of average income/consumption for the rest of society” in AgeWatch to find a source

3.4 Relative median income: DE local index (1/6) (val. 30 NUTS3: 59)

Source	German Ageing Survey (DEAS) 2014
Question	What is the total net monthly income of your household? By that, I mean the sum total of all wages / salaries, income from self-employment, and retirement benefits after deduction of all tax and social security contributions. Please include income from public aid, income from rentals and leases, interest, child benefits and other sources of income.
Coding	<p>1 ____: Euro per month</p> <p>2 Declined</p> <p>3 Don't know</p>

3.4 Relative median income: DE local index (2/6) (val. 30 NUTS3: 17)

Source	German Survey on Volunteering (FWS) 2014
Question	How high is the total monthly net income of your household? I mean the total income from wages, salary, income from self-employment, pension, after tax and social security contributions (net income).
Coding	<p>1 up to and including 1,000 Euro</p> <p>2 Over 1,000 Euro up to and including 2,000 Euro</p> <p>3 Over 2,000 Euro up to and including 3,000 Euro</p> <p>4 Over 3,000 Euro up to and including 4,000 Euro</p> <p>5 Over 4,000 Euro</p> <p>6 Declined</p> <p>7 Don't know</p>

3.4 Relative median income: DE local index (3/6) (val. 30 NUTS3: 49)

Source	German Longitudinal Election Survey (GLES, before election) 2013
Question	How high is the total monthly net income of your household? I mean the total income from wages, salary, income from self-employment, pension, after tax and social security contributions.
Coding	<ul style="list-style-type: none"> Below 500 Euro 500- 750 Euro 750-1000 Euro 1000-1250 Euro 1250-1500 Euro 1500-2000 Euro 2000-2500 Euro 2500-3000 Euro 3000-4000 Euro 4000-5000 Euro 5000-7500 Euro 7500-10000 Euro 10.000 Euro and more Don't know /Declined

3.4 Relative median income: DE local index (4/6) (val. 30 NUTS3: 19)

Source	Indicators and Maps for regional and urban development (INKAR) 2012
Question	Not available
Coding	Not available

3.4 Relative median income: DE local index (5/6) (val. 30 NUTS3: 13)

Source	Microcensus 2015
Question	How high was the total net income of your household last month?
Coding	1 1 to 18.000 Euro 2 18.000 Euro and more

3.4 Relative median income: DE local index (6/6) (val. 30 NUTS3: 21)

Source	The German Socio-Economic Panel (SOEP)
Question	How high was your income/salary last month?
Coding	1 Net_____ Euro 2 Gross_____ Euro

3.6 No severe material deprivation: Original methodology (val. DE = 97)

Goal	One of 3 indicators of financial security...the indicator shows the proportion of individuals and households who cannot afford certain goods considered by most people to be necessary. It measures exclusion by directly capturing people's actual standard of living in the country where they live...more stable over time than income
Source	EU-SILC 2012
Definition	<p>Percentage of people aged 65 years and older who are not severely materially deprived...severe material deprivation refers to a state of economic and durable strain, defined as the enforced inability (rather than the choice not to do so) to afford at least four out of the following nine items:</p> <ol style="list-style-type: none"> 1. To pay the rent, mortgage or utility bills 2. To keep the home adequately warm 3. To face unexpected expenses 4. To eat meat or proteins regularly 5. To go on holiday 6. A television set 7. A washing machine 8. A car 9. A telephone

3.6 No severe material deprivation

Source	Russian Generations and Gender Survey (GGG-2011)
Question	<p>Did you have any occasions during the 12 months preceding survey when your household couldn't pay for their rent, mortgage or utility bills;</p> <p>Could your household afford to keep their home adequately warm;</p> <p>If we talk about total household income, how easy do you make both ends meet? Very difficult/difficult/slightly difficult/rather easy/easy/very easy</p> <p>Could your household afford ...?</p> <ol style="list-style-type: none"> 1. To go on holiday every year; 2. To eat meat, chicken or fish at least every other day. <p>Does your household have – or want to have - the following items in your household?</p> <ol style="list-style-type: none"> 1. A television set; 2. A washing machine; 3. A domestic or foreign car 4. A mobile telephone <p>Yes, your household has/Your household wants to have but can't afford/Your household doesn't have for other reasons</p>

3.6 No severe material deprivation: DE local index (1/3) (val. 30 NUTS3: 36)

Source	German Ageing Survey (DEAS) 2014
Question	1) Now we would like to ask a few questions about your living situation. How is your home equipped?: Central heating or self-contained central heating 2) This question concerns the estimation of your standard of living, that is, what you are able to afford. How would you rate your current standard of living?
Coding 1.	1 Yes 2 No
2.	1 Very good 2 Good 3 Average 4 Bad 5 Very bad 7/8 Declined/ Don't know

3.6 No severe material deprivation: DE local index (2/3) (val. 30 NUTS3: 36)

Source	European Social Survey (ESS) 2014
Question	Which of the descriptions on this card comes closest to how you feel about your household's income nowadays?
Coding	1 Living comfortably on present income 2 Coping on present income 3 Finding it difficult to live on present income 4 Finding it very difficult to live on present income 5 Don't know

3.6 No severe material deprivation: DE local index (3/3) (val. 30 NUTS3: 36)

Source	German Survey on Volunteering (FWS) 2014
Question	How would you rate your current financial situation? As ...
Coding	1 Very good 2 Rather good 3 Average 4 Rather poor 5 Very poor 6 No answer

3.8 Lifelong learning: Original methodology (val. DE = 2)

Goal	The indicator measures all education or training, not only those which are work-related. Therefore, it captures the way individuals acquire key competences in the shape of knowledge, skills and attitudes, which are fundamental for each individual in a knowledge-based society. These competences provide added value for the labour market, social cohesion and active citizenship by offering flexibility and adaptability, satisfaction and motivation.
Source	EU Labour Force Survey (EU-LFS)
Question	Did you attend any courses, seminars, conferences or received private lessons or instructions within or outside the regular education system within the last 4 weeks
Coding	1. Yes 2. No

3.8 Lifelong learning

Source	Russian Longitudinal Monitoring Survey (RLMS-2010, RLMS-2012, RLMS-2014)
Question	Did you study – or do you study – on professional courses, training programs or any other courses including language courses, training in the workplace during the 12 months preceding survey?
Coding	<ol style="list-style-type: none"> 1. Yes 2. No 3. Don't know

RLMS-2010	1,4 (men – 1,4 women – 1,5)	RLMS-2012	1,6 (men – 1,1 women – 1,9)	RLMS-2014	1,2 (men – 0,5 women – 1,6)
CMLC-2011	1,5 (men – 1,3 women – 1,6)			CMCL-2014	1,4 (men – 1,0 women – 1,6)

3.8 Lifelong learning

Source	Comprehensive Monitoring of Living Conditions of the Population (CMLC-2011, CMLC-2014)				
Question	Do you visit any courses or other kinds of additional education?				
Coding	1. Yes 2. No				
RLMS-2010	1,4 (men – 1,4 women – 1,5)	RLMS-2012	1,6 (men – 1,1 women – 1,9)	RLMS-2014	1,2 (men – 0,5 women – 1,6)
CMLC-2011	1,5 (men – 1,3 women – 1,6)			CMCL-2014	1,4 (men – 1,0 women – 1,6)

Other possible sources: **National labour force survey**

3.8 Lifelong learning: DE local index (1/3) (val. 30 NUTS3: 11)

Source	German Ageing Survey (DEAS) 2014
Question	How often do you take classes or go to lectures, for example, for education and further training?
Coding	1 Daily 2 Several times a week 3 Once a week 4 1-3 times a month 5 Less often 6 Never 7 Declined 8 Don't know

3.8 Lifelong learning: DE local index (2/3) (val. 30 NUTS3: 16)

Source	European Social Survey (ESS) 2014
Question	During the last 12 months, have you taken any course or attended any lecture or conference to improve your knowledge or skills for work?
Coding	1 Yes 2 No 3 Don't know

3.8 Lifelong learning: DE local index (3/3) (val. 30 NUTS3: 18)

Source	Survey of Health, Ageing and Retirement in Europe (SHARE) 2014
Question	Please look at card 32: which of the activities listed on this card – if any – have you done in the past 12 months?
Coding	1 Attended an educational or training course

4.2. Healthy life expectancy at age 55

Goal	Years spent in good health at 55 as an indicator of the capacity for active ageing
Source	European Health and Life Expectancy Information System (EHLEIS) 2009/2010
Question	

4.2 Share of healthy life years in the remaining life expectancy at age 55 (val. DE = 42)

Goal	Capture the proportion of years spent in good health in the remaining life expectancy at 55 as an indicator of the capacity for active ageing
Source	European Health and Life Expectancy Information System (EHLEIS) 2009/2010
Method	HLE/LE

The Sullivan method. Brief overview. Life tables.

Probability of dying in the interval

Number of survivors to exact age x of 100,000 live births

Number of person-years lived in the interval

Number of person-years lived from age x

Average life expectancy at age x

Age	q_x	l_x	dx^*	L_x	T_x	$e_x = T_x/l_x$
55	0,01	81270	1116	80712	1776324	21,86
56	0,01	80154	1166	79572	1695612	21,15
57	0,02	78989	1211	78383	1616040	20,46
58	0,02	77778	1253	77151	1537657	19,77
59	0,02	76524	1346	75851	1460506	19,09
60	0,02	75179	1443	74457	1384655	18,42
... 85+						

*deaths are assumed to occur linearly over a year of age

The Sullivan method. Brief overview.

A Single Index of Mortality and Morbidity
Daniel F. Sullivan
SMHA Health Reports, Vol. 86, No. 4 (Apr.,
1971), pp. 347-354

To calculate an average life expectancy we need some index π expressing average fraction of the year persons of that age group are free of disability or the proportion of healthy people in that age group.

Age	l_x	L_x	π	LH_x	TH_x	$eH_x = HALE$
55	81270	80712	0,90	72348	1228317	15,11
56	80154	79572	0,86	68597	1155969	14,42
... 85+						

D. Sullivan proposed “any operational definition of disability for which adequate data are available”: days of limited activity, day in long-term institutions, self-assessment of health status, number of chronic diseases, **YLD** and so on.

4.2. Healthy life expectancy at age 55

Source	Global Burden of Disease Study 2010, The Institute for Health Metrics and Evaluation
Question	Based on estimates of the prevalence of 2337 sequelae by age, sex, country and year; and disability weights for 235 unique health states that collectively cover the range of functional health losses and symptoms associated with the 2337 sequelae
Results	men – 13,9, women – 18,8

Source	Comprehensive Monitoring of Living Conditions of the Population (CMLC-2011, CMLC-2014)
Question	Self-assessment of health status Very good/Good/Fair/Poor /Very poor
Results	CMLC-2011: men - 13,7, women 17,0 CMLC-2012: men - 14,3, women 17,3

4.2. Healthy life expectancy at age 55

Source	Russian Longitudinal Monitoring Survey (RLMS-2010, RLMS-2012, RLMS-2014)	
Question	Self-assessment of health status Very good/Good/Fair/Poor /Very poor	
Results	RLMS-2010: men - 13,1, women- 15,0 RLMS-2012: men - 13,9, women- 16,1 RLMS-2014: men - 13,9, women- 16,1	
Question	2 and more chronic conditions	
	<ul style="list-style-type: none"> • Heart diseases • Lung disease • Liver disease • Renal Disease 	<ul style="list-style-type: none"> • Gastrointestinal disease • Spine disease • Other chronic diseases
Results	RLMS-2010: men - 12,6, women- 10,9 RLMS-2012:men - 12,6, women- 14,0 RLMS-2014:men - 13,0, women- 14,2	

4.2 Share of healthy life years in the remaining life expectancy at age 55: DE local index (1/5) (val. 30 NUTS3: 48 and 76)

Source	German Ageing Survey (DEAS) 2014
Question	<p>1) Do you have any long standing illness or health problem?</p> <p>2) Please look at the following list: has a doctor ever told you that you are suffering from one of the illnesses listed? Please tell me the letters corresponding to all illnesses that apply. List of illnesses): A-T</p>
Coding 1.	<p>1 No</p> <p>2/3 Yes, one/ Yes, several</p> <p>4 Declined</p> <p>5 Don't know</p>
2.	<p>1 No illness</p> <p>2 Not mentioned</p> <p>3 Mentioned</p> <p>4 Declined</p> <p>5 Don't know</p>

4.2 Share of healthy life years in the remaining life expectancy at age 55: DE local index (2/5) (val. 30 NUTS3: 57 and 58)

Source	European Social Survey (ESS) 2014
Question	1) Are you hampered in your daily activities in any way by any longstanding illness, or disability, infirmity or mental health problem? If Yes, is that a lot or to some extent? 2) How is your health in general? Would you say it is...
Coding 1.	1 no 2/3 yes, a lot/ yes, to some extent 4 don't know
2.	1 very good 2 good 3 fair 4 bad 5 or very bad 6 don't know

4.2 Share of healthy life years in the remaining life expectancy at age 55: DE local index (3/5) (val. 30 NUTS3: 59 and 47)

Source	German Survey on Volunteering (FWS) 2014
Question	To what extent are you permanently restricted by illness in carrying out your everyday work?
Coding	1 not restricted 2 have no illness 3 severely restricted 4 somewhat restricted 5 declined 6 don't know

4.2 Share of healthy life years in the remaining life expectancy at age 55: DE local index (4/5) (val. 30 NUTS3: 90)

Source	Microcensus 2015
Question	<p>1) Variable EF467: Were you sick over the last 4 weeks (Waren Sie in den Letzen 4 Wochen krank?)</p> <p>2) Variable EF469: How long did your illness last? (Wie lange dauerte Ihre Krankheit an?)</p>
Coding 1.	<p>1 Yes</p> <p>3 No</p> <p>3 No answer</p>
2.	<p>1-3 Days</p> <p>Over 3 days- 1 week</p> <p>Over 1 week- 2 weeks</p> <p>Over 2 weeks-4 weeks</p> <p>Over 4 weeks-6 weeks</p> <p>Over 6 weeks-1 year</p> <p>Over 1 year</p>

4.2 Share of healthy life years in the remaining life expectancy at age 55: DE local index (5/5) (val. 30 NUTS3: 58)

Source	Survey of Health, Ageing and Retirement in Europe(SHARE) 2014
Question	Would you say your health is...
Coding	1 Excellent 2 Very good 3 Good 4 Fair 5 Poor

4.3 Mental well-being: Original methodology (val. DE = 75)

Goal	To capture mental well-being of older population aged 55+, so to complement the measure of physical health captured via the healthy life expectancy measure, with the help of an index that measures self-reported feelings of positive happy moods and sprits
Source	European Quality of Life Survey 2011 and WHO´s ICD-10 measurement model
Question	Q45a: I have felt cheerful and in good spirits Q45b: I have felt calm and relaxed Q45c: I have felt active and vigorous Q45d: I woke up feeling fresh and rested Q45e: My family life has been filled with things that interest me Response categories 1. All of the time 2. Most of the time 3. More than half of the time 4. Less than half of the time 5. Some of the time 6. At no time → raw score calculated by reverse value...total 0 – 25, 0 = worst possible and 25 best possible quality of life

4.3 Mental well-being

Source	European Social Survey (EU-2012, EU-2014)									
Question	I will now read out a list of the ways you might have felt or behaved during the past week.									
	a) ...you were happy? b) ...you felt calm and peaceful? c) ...you had a lot of energy? d) ...your sleep was restless (reversed)? e) ...you enjoyed life?	a) ...you were happy? b) ...you felt depressed? (reversed) c) ...you couldn't get going? (reversed) d) ...your sleep was restless? (reversed) e) ...you enjoyed life?								
Coding	Response categories of each of these five survey questions are: <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">1. None or almost none of the time</td> <td style="text-align: right;">56,7</td> </tr> <tr> <td>2. Some of the time</td> <td style="text-align: right;">(men – 61,4</td> </tr> <tr> <td>3. Most of the time</td> <td style="text-align: right;">women – 54,8)</td> </tr> <tr> <td>4. All or almost all of the time</td> <td></td> </tr> </table> <p>The raw scores were calculated by assigning values to the response options: from 0 for “none or almost none of the time” to 3 for “all or almost all of the time”. The presence of depression was defined for respondents with the integrated score below 8</p>		1. None or almost none of the time	56,7	2. Some of the time	(men – 61,4	3. Most of the time	women – 54,8)	4. All or almost all of the time	
1. None or almost none of the time	56,7									
2. Some of the time	(men – 61,4									
3. Most of the time	women – 54,8)									
4. All or almost all of the time										

Other possible questions: life satisfaction, level of overall happiness, frequency of depressions from medical surveys

4.3 Mental well-being

Source	Russian Longitudinal Monitoring Survey (RLMS-2010, RLMS-2012, RLMS-2014)
Question	How satisfied are you with your life as a whole nowadays?
Coding	<ol style="list-style-type: none">1. Fully satisfied2. Rather satisfied3. Yes and no4. Not very satisfied5. Not at all satisfied
Results	RLMS-2010: 40,4 (men – 44,4, women- 38,3) RLMS-2012: 45,5 (men – 48,3, women- 43,9) RLMS-2014: 45,4 (men – 48,7, women- 43,7)

4.3 Mental well-being

Source	European Social Survey (ESS-2012, ESS-2014)
Question	How happy are you? How satisfied with life as a whole?
Coding	From 0 (extremely dissatisfied or unhappy) to 10 (extremely satisfied or happy) – taking 6 and more as positive answer.

ESS-2012 life satisfaction	45,8 (men – 43,4, women – 47,3)	ESS-2012 happiness	53,6 (men – 51,4, women – 55,0)
ESS-2014 life satisfaction	48,4 (men – 44,3, women – 50,6)	ESS-2014 happiness	53,0 (men – 45,8, women – 56,8)

4.3 Mental well-being: DE local index (1/3) (val. 30 NUTS3: 72)

Source	German Ageing Survey (DEAS) 2014
Question	<p>1) Below is a list of the ways you might have felt or behaved. Please tell me how often you have felt this way during the past week: I was bothered by things that usually don't bother me (A), I felt that I could not shake off the blues even with help from my family or friends (B), I had trouble keeping my mind on what I was doing (C), I felt depressed (D), I felt that everything I did was an effort (E), I thought my life had been a failure (F), felt fearful (G), My sleep was restless (H), I was happy (J), I talked less than usual (K), I felt lonely (L), I enjoyed life (M), I felt sad (N), I felt that people dislike me (O), I could not get "going"</p>
Coding 1.	<p>1 Rarely or none of the time; less than 1 day 2 Some or a little bit of the time; for 1 to 2 days 3 Occasionally or a moderate amount of time; for 3 to 4 days 4 Most or all of the time; for 5 to 7 days 5 Declined (7) 6 Don't know (7/8)</p>

4.3 Mental well-being: DE local index (1/3) (val. 30 NUTS3: 72)

Source	German Ageing Survey (DEAS) 2014
Question	<p>2) Please indicate to what extent you have felt this way during the past few months.</p> <p>→ drop-off (4): Enthusiastic, Exited, Upset, Strong, Guilty, Scared, Hostile, Interested, Proud, Irritable, Alert, Ashamed, Inspired, Nervous, Determined, Attentive, Jittery, Active, Afraid</p> <p>→ Dropp-off (22): Satisfied, Sad, Downhearted, Relaxed, Disappointed, Well-balanced, Exhausted)</p>
Coding 2	<p>1 Very slightly or not at all</p> <p>2 A little</p> <p>3 Moderately</p> <p>4 Quite a lot</p> <p>5 Extremely</p>

4.3 Mental well-being: DE local index (2/3) (val. 30 NUTS3: 90)

Source	European Social Survey (ESS) 2014
Question	Overall, how happy would you say you are? Please use this card
Coding	1 Scale 1-10 (1= extremely unhappy/ 10 = extremely happy) 0-6 7-10 2 don't know

4.3 Mental well-being: DE local index (3/3) (val. 30 NUTS3: 84)

Source	German Survey on Volunteering (FWS) 2014
Question	To what extent does the following statement apply to you personally: "I am satisfied with my life".
Coding	1 Fully applies 2 Partially applies 3 Partly 4 Applies less 5 Doesn't apply at all